

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,380	09/27/2004	Seiichi Furumi	042757	5055
5002	7590 02/20/200 I, HATTORI, DANIEL		EXAM	INER
1250 CONNEC	TICUT AVENUE, NV		TRUONG, DUC	
SUITE 700 WASHINGTON	700 NGTON, DC 20036 ART UNIT PAPER NUMBE		PAPER NUMBER	
	.,		1711	
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SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	02/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/509,380	FURUMI ET AL.			
Office Action Summary	Examiner	Art Unit			
_	Duc Truong	1711			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. .136(a). In no event, however, may a d will apply and will expire SIX (6) MC te, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communi ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 30 I	November 2006.				
,— ·	is action is non-final.	•			
3) Since this application is in condition for allows	ance except for formal ma	tters, prosecution as to the meri	its is		
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-36 and 38</u> is/are pending in the ap	pplication.				
4a) Of the above claim(s) 10-36 and 38 is/are	withdrawn from considera	ation.			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.		•			
7)⊠ Claim(s) <u>7-9</u> is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9) The specification is objected to by the Examin	ner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ ac		by the Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	ction is required if the drawin	g(s) is objected to. See 37 CFR 1.1	21(d).		
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attache	ed Office Action or form PTO-15	2.		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:		•			
1. Certified copies of the priority documer	nts have been received.				
2. Certified copies of the priority documer	2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the price	3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Burea	au (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a lis	t of the certified copies no	t received.			
AM					
Attachment(s) 1) Notice of References Cited (PTO-892)	المتحددة المالية	Summary (PTO-413)			
2) Notice of References Cited (P10-692) Notice of Draftsperson's Patent Drawing Review (PT0-948)	Paper No	(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Other:	Informal Patent Application			
Paper No(s)/Mail Date	o) 🗀 Other:				

DETAILED ACTION

Response to Amendment

Applicant's arguments filed 11/30/2006 have been fully considered but they are not persuasive. The Amendment submitted by Applicant does not overcome the rejection made by Examiner in the last office action and for the following reasons:

Claim Rejections - 35 USC § 112

Claims 1 and 2 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. While the specification provides support for the step of crosslinking the bonding residues by using a molecular structure having a higher atomic density in the periphery than in the interior and having bonding residues in the periphery, as disclosed at page 3 in the specification, it does not provide support for the use of "intra-molecule bonding", as now amended, since it does not determine how it works.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by JP-2000-063513 or EP 899286 or Jensen et al or Cooper et al.

The rejection is maintained for the reasons as stated above and for the reasons as stated in the last office action.

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Claims 7-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 571-272-1081. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DUCTRUONG

PRIMARY EXAMINER